



3739 #3/A

In the United States Patent and Trademark Office

Appln. Series No: 09/303,673

Appln filed: 05/03/99

Applicant: J. T. Lin

New address: 4532 Old Carriage Trail, Oviedo, FL 32765

Tel: (407)482-4555 (office)

Title: Refractive Surgery and Pesbyopia correction using infraered and ultraviolet lasers

AMENDMENT A (submitted on Nov. 27, 2000)

Examiner: Ahmed Farah/3739
Assistant Commissioner for Patent
Patent Office, DC

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Dear Sir:

In response to your Office Action mailed on 09/27/00 (to my OLD address), please find Amendment below according to the PBG-Final Rule. Please be advised that my address has been changed as above.

(I) Version of replacements:

Claims 1-19 are cancelled and substituted by the amended Claims 20-33 as follows, changes are shown in the "Version with Marking chnages" followed after REMARKS)

CLAIMS:

20. A method of performing refractive surgery by reshaping a portion of corneal tissue, said method comprising the steps of:
- selecting a gas laser generated by transverse electrical discharge in a mixture of neutral gases including at least helium gas and having a pulsed output beam of predetermined mid-IR wavelength of (2.7 - 3.2) microns;
 - selecting a beam spot controller mechanism, said spot controller consisting of an internal magnetic coupler integrated inside the laser cavity having a pin-hole size of about (2-10) mm;
 - focusing the output beam to a spot size of about (0.05-2.5) mm on the corneal surface;
 - selecting a scanning mechanism for scanning said selected laser output beam;
 - coupling said laser beam to a scanning device for scanning said laser beam over a predetermined corneal surface area to remove corneal tissue, whereby a patient's vision is corrected by reshaping the cornea.
21. A method for improving presbyopic patient's vision by removing a portion of the sclera ciliary tissue from an eye of a patient, said method comprising the steps of:
- selecting an ablative laser beam for removing sclera tissue, said ablative laser which is focused to a spot size of about (5-500) microns on the corneal surface;
 - selecting a scanning mechanism for scanning said laser output beam;
 - coupling said laser beam to a scanning device for scanning said laser beam over a predetermined corneal limbus area to remove said sclera ciliary tissue, whereby a patient's vision is improved by sclera expansion of the cornea.
22. A method of claim 21, in which the said ablative laser is a gas laser having an output wavelength of about (2.7-3.2) microns, energy per pulse of about (0.5-15) mJ on corneal

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CERTIFICATE OF MAILING

Patent application Series No. 09/303,675
Inventor: J. T. Lin

Art Unit No. 3739

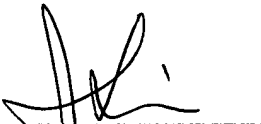
I hereby certify that this correspondence is being deposited with the Federal Express Mail in an envelope addressed to:

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Sincerely,


J. T. Lin

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